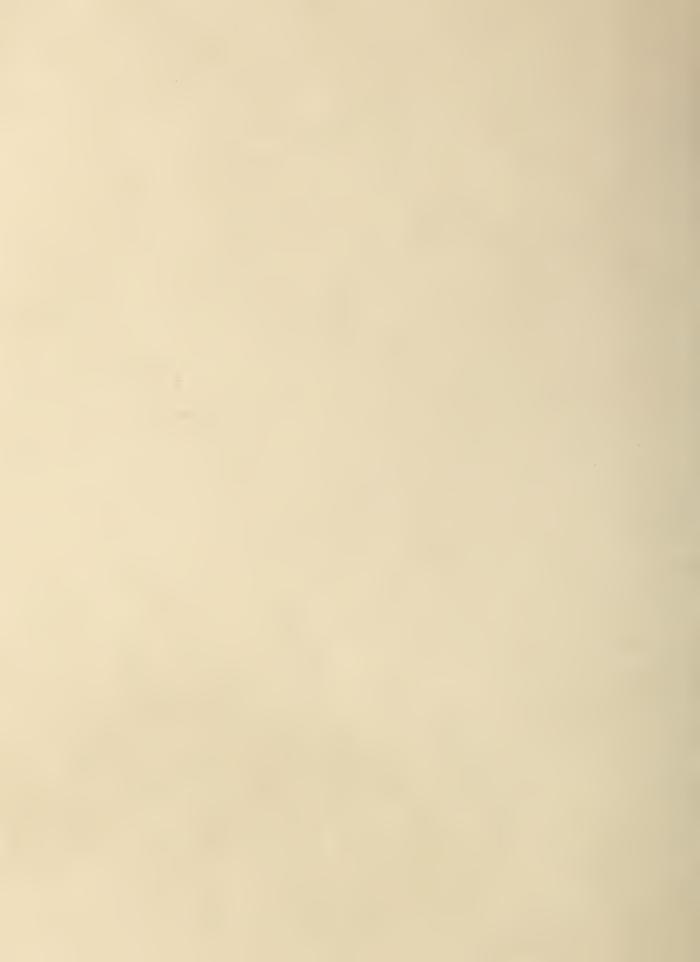
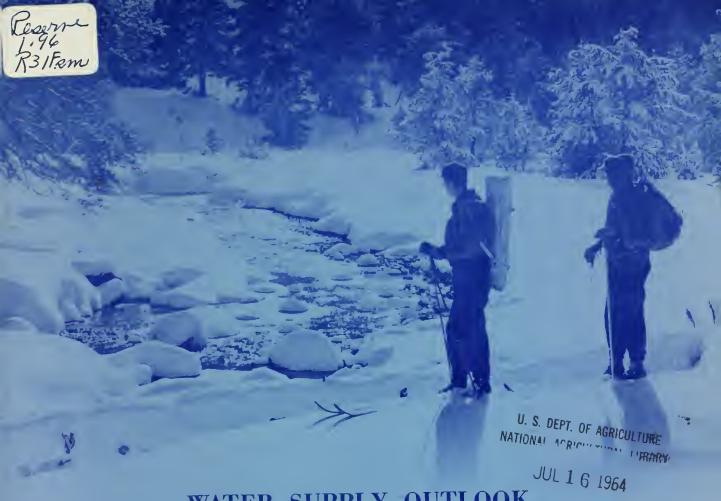
Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.





WATER SUPPLY OUTLOOK and and SERIAL MELDINDS

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

for

COLORADO and NEW MEXICO

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE and

COLORADO AGRICULTURAL EXPERIMENT STATION, STATE ENGINEER of COLORADO and STATE ENGINEER of NEW MEXICO

Data included in this report were obtained by the agencies named above in cooperation with the Bureau of Reclamation, U.S. Forest Service, National Park Service and other Federal, State, and private organizations.

MAY 1, 1962

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Cooperative Snow Survey and Water Supply Forecast Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

	PUBLISHED BY SO	IL CONSERVATION SERVICE	
REPORTS	ISSUED	LOCATION	COOPERATING WITH
RIVER BASINS	·		
COLORADO ANO STATE OF UTAH	_ MONTHLY (JANJUNE		. UTAH STATE ENGINEER AND OTHER AGENCIES
COLUMBIA	_ MONTHLY (JANMAY)	BOISE, IOAHO	. IOAHO STATE RECLAMATION ENGINEER
UPPER MISSOURI AND STATE OF MONTANA	_ MONTHLY (FEB JUNE) BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
WEST-WIDE	OCT. 1, APR. 1. MAY	1_ PORTLANO, OREGON	. ALL COOPERATORS
STATES			
ALASKA	_ MONTHLY (MARMAY)	PALMER, ALASKA	ALASKA S.C.D.
AR I ZON A	SEMI-MONTHLY (JAN.15 - APR.1)		SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORAGO ANO NEW MEXICO	_ MONTHLY (FEBMAY)	FORT COLLINS, COLORAGO	. COLO. AGR. EXP. STATION COLO. STATE ENGINEER N. MEX. STATE ENGINEER
I OAHO	_ MONTHLY (FEBMAY)	BOISE, IOAHO	IOAHO STATE RECLAMATION ENGINEER
NEVAOA	_ MONTHLY (JAN MAY).	RENO. NEVAOA	NEVAGA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JANJUNE) PORTLANO. OREGON	ORE. AGR. EXP. STATION OREGON STATE ENGINEER
WASHINGTON	_ MONTHLY (FEB. JUNE)_ SPOKANE. WASHINGTON	. Wn. STATE DEPT. OF CONSERVATION
WYOMING	_ MONTHLY (FEBJUNE).	CASPER. WYOMING	WYOMING STATE ENGINEER
Copies of these	various reports may b	Head, Water Supply F Soil Conservation Se P.O. Box 4170, Portl	rvice
	PUBLISHED	BY OTHER AGENCIES	
REPORTS	ISSUED		AGENCY
BRITISH COLUMBIA	MONTHLY (FEBJUNE)		RIGHTS BR., DEPT. OF LANOS AND T BLOG., VICTORIA, B.C., CANAOA
CALIFORNIA	MONTHLY (FEBMAY)_	CALIF, DEPT. OF WA	TER RESOURCES, SACRAMENTO, CALIF.

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER SUPPLY FORECASTS

for

COLORADO RIVER, PLATTE RIVER ARKANSAS RIVER AND RIO GRANDE DRAINAGE BASINS

Issued

May 1, 1962

Report Prepared By
Jack N. Washichek, Snow Survey Supervisor
and
Don W. McAndrew, Assistant Snow Survey Supervisor
Fort Collins, Colorado

United States Department of Agriculture
Soil Conservation Service
and
Colorado Agricultural Experiment Station
Fort Collins, Colorado
and
State Engineer of Colorado
Denver, Colorado
and
State Engineer of New Mexico
Santa Fe, New Mexico

Issued By

Kenneth W. Chalmers
State Conservationist(Colo.)
Soil Conservation Service

Courtney A. Tidwell
State Conservationist (N. Mex.)
Soil Conservation Service

J. E. Whitten
State Engineer
State of Colorado

Sherman S. Wheeler, Director Colorado Agricultural Experiment Station

S. E. Reynolds State Engineer State of New Mexico

General Series Paper No.768
Colorado Agricultural Experiment Station

WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO as of MAY 1, 1962





Forecasts have been reduced since April 1, but most of the State should still have adequate water supplies this summer. Mountain soils are saturated and valley soils are generally fair to good. Reservoirs throughout the State will furnish good supplemental supplies.

Current streamflow is much above normal.



Most of the low elevation snow has been melted by high temperature and winds during April. All the high elevation snow courses are still above normal. Prospects for a much above normal summer streamflow have diminished. Flows still should be above normal and much will depend upon the spring and summer precipitation. If summer rainfall is normal or above, there should be adequate water for agricultural use.

WATER SUPPLY OUTLOOK

THE MAP ON THIS PAGE INDICATES THE MOST PROBABLE WATER SUPPLY AS OF THE DATE OF THIS REPORT. ESTIMATES ASSUME AVERAGE CONDITIONS OF SNOW FALL, PRECIPITATION AND OTHER FACTORS FROM THIS DATE TO THE END OF THE FORECAST PERIOD. AS THE SEASON PROGRESSES ACCURACY OF ESTIMATES IMPROVE. IN ADDITION TO EXPECTED STREAMFLOW, RESERVOIR STORAGE, SOIL MOISTURE IN IRRIGATED AREAS, AND OTHER FACTORS ARE CONSIDERED IN ESTIMATING WATER SUPPLY. ESTIMATES APPLY TO IRRIGATED AREAS ALONG THE MAIN STREAMS AND MAY NOT INDICATE CONDITIONS ON SMALL TRIBUTARIES.

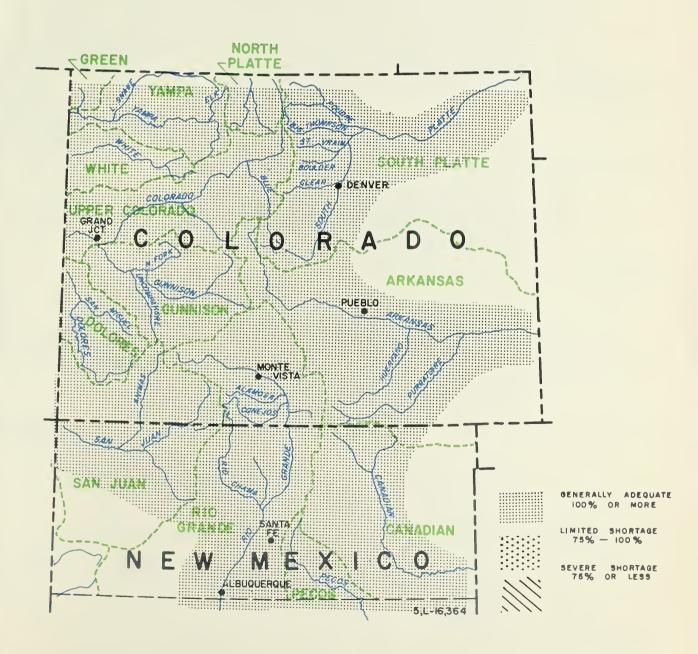


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WATER SUPPLY OUTLOOK BY MAJOR WATERSHED AREAS

WATERSHED I - SOUTH PLATTE RIVER WATERSHED

Describes water supply conditions in Fort Collins, Big Thompson, Longmont, Boulder Valley, Jefferson, Teller-Park, Douglas County, Morgan, Kiowa, West Arapahoe, West Adams, East Adams, Platte Valley, Southeast Weld, and West Greeley Soil Conservation Districts.

WATERSHED II - ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Boone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Branson Trinchera, Western Baca County, Southeastern Baca County, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, West Otero, East Otero, and Big Sandy Soil Conservation Districts.

WATERSHED III - RIO GRANDE WATERSHED (COLORADO)

Describes water supply conditions in Rio Grande, Center, Mosca, Hooper, Mt. Blanca, Sanches, and Culebra Soil Conservation Districts.

WATERSHED IV - RIO GRANDE WATERSHED (NEW MEXICO)

Describes water supply conditions in Lower Cebolla, Abiquiu-Vallecitos, Eastern Taos, Lindrith, Coyote-Canones, Espanola Valley, Pojoaque, Jemez, Santa Fe-Sandoval, Tijeras, Cuba, and Edgewood Soil Conservation Districts.

WATERSHED V - DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

Describes water supply conditions in San Miguel Basin. Dove Creek, Dolores. Mancos, LaPlata, Pine River, San Juan, and Glade Park Soil Conservation Districts.

WATERSHED VI - GUNNISON RIVER WATERSHED

Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompangre Soil Conservation Districts.

WATERSHED VII - COLORADO RIVER WATERSHED

Describes water supply conditions in DeBeque, Lower Grand Valley, Bookcliff, Eagle County, Middle Park, Glade Park, Upper Grand Valley, Plateau Valley, South Side, and Mt. Sopris Soil Conservation Districts.

WATERSHED VIII - YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, Upper White River, Lower White River, and Douglas Creek Soil Conservation Districts.

WATERSHED IX - LOWER SOUTH PLATTE RIVER WATERSHED

Describes water supply conditions in Sedgwick, South Platte, Haxton, Peetz, Padroni, Morgan Rock Creek and Yuma Soil Conservation Districts.

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE

SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of

May 1, 1962

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO

SNOW COVER

Snow cover at the low elevations has just about disappeared. We have had practically no snow during April and have had considerable melting. Warm weather the latter part of April ate up the snow. High elevation courses are still above normal. Cameron Pass has more snow than at any time since 1956.

OIL MOISTURE

Soil moisture has been excellent all winter. Valley areas differ to some extent. Some areas are reporting good soil moisture while others are reporting only fair. High winds and warm temperatures have dried top soils.

RESERVOIR STORAGE

Reservoir storage is excellent. It is not only much better than last year, but considerably above the 1943-57 average. The Colorado - Big Thompson Project contains 575,000 acre feet compared to an average of only 348,000 acre feet.

EXPECTED STREAMFLOW



Forecasts are rapidly approaching normal. What looked like a big water season during February and March now looks just a little better than normal. With average precipitation, water supplies should still be adequate. Forecasts are based on average rainfall for the remainder of the year. All forecasts are still above normal. Current streamflow is much above average for this date.

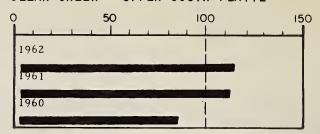
'THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY'

ISSUED BY: SOIL CONSERVATION SERVICE

CACHE LA POUDRE - BOULDER



CLEAR CREEK - UPPER SOUTH PLATTE



RESERVOIR STORAGE (1,000 AC. FT.)

SOIL MOISTURE

					00	I L IIIO	OTORE	-	
RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEAR AVERAGE 1943 - 57	STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Antero	33.0	15.7	15.7	14.9	Alpine Camp	7.0	4.0	1.4	2.8
Barr Lake	32.2	28.5	28.7	24.3	Beaver Dam	6.0			2.3
Black Hollow	8.0	5.1	2.2	3.4	Feather	6.0			3.9
Boyd Lake	44.0	43.0	33.5	18.5	Guard Statio	n 7.0			3.9
Cache La Poud		8.6	8.9	7.6	Hoop Creek	6.0			1.9
Carter Lake *		107.3	94.4	69.2	Hoosier Pass	7.0			2.5
Chambers Lake		5.3	2.0	2.6	Kenosha Pass	7.0	6.3	0.9	4.3
Cheeseman	79.0	79.1	63.9	52.7	Laramie Road	7.0	6.4	0.8	4.0
Cobb Lake	34.3	20.4	13.0	5.5	Two Mile	8.0	6.0	1.2	3.2
Eleven Mile	81.9	98.0	98.0	69.4	Clear Creek	8.0	5.6	0.8	2.1
Fossil Creek	11.6	9.6	10.6	7.9					
Gross	43.1	33.1	12.3	,					
Halligan	6.4	6.4	6.4	2.0					
Horsetooth *	143.5	137.4	119.4	94.0			j		
Lake Loveland	14.3	8.8	9.6	7.0		L PROFILI	ES A PERT	DEED	1
Lone Tree	9.2	9.1	7.8	8.4	AL	L FROFILI	ES 4 FEEI	DEEP	
Mariano	5.4	5.6	3.9	3.1					
Marshall	10.3	7.0	4.6	3.5					
Marston	18.9	16.3	17.0	15.1					
Milton	24.4	15.4	16.0	12.8					
Standley	18.5	16.1	12.9	12.4					
Terry Lake	8.2	5.8	5.7	5.0					
Union	12.7	12.0	9.1'	7.2				, ,	000 4
	TEASUIT OD HE	ST OF MORTI	11.8	11.4	STREAMFLO	W FOR	ECAST		000 A
Mchantan Dani	- 4							THIS	

*Shorter Period.

PRECIPITATION

STATION	AUGUST THROUGH NOVEMBER AVE, DEP,	winter Ave DecMar	
Upper South Platte	8.07 +3.7	1 2.402	2

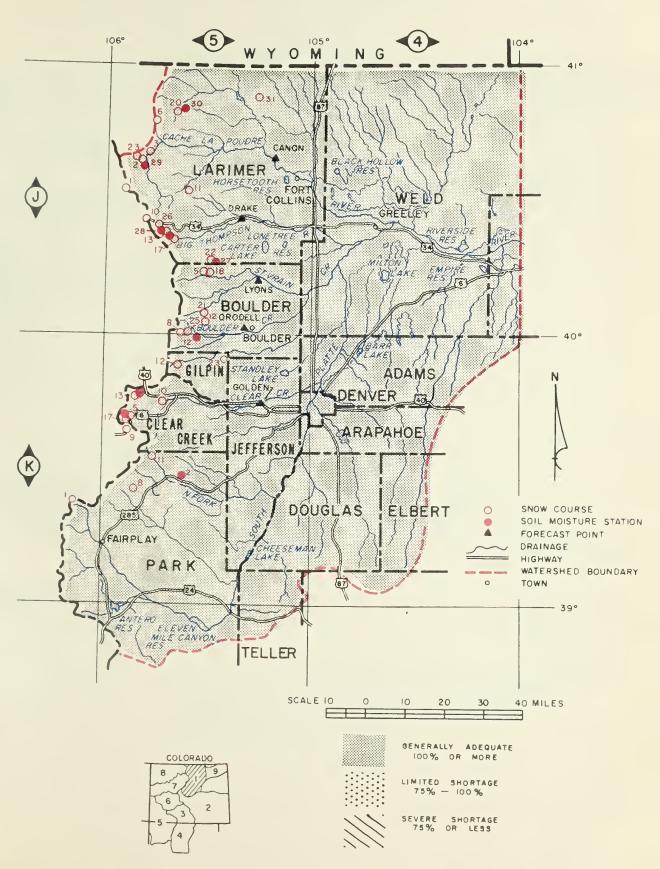
PRELIMINARY U.S. WEATHER BUREAU DATA AVERAGE OF SELECTED STATIONS

FORECAST THIS

STREAM AND STATION	APRIL - SEPT.	YEAR % AVERAGE	AVERAGE 1943-57
Big Thompson at Drake (2 Boulder at Orodell Cache La Poudre at Canor Clear Creek at Golden (3 Saint Vrain at Lyons	(1) 19 3) 17)3 11 00 10	.5 55 01 189 25 137

- (1) Observed flow minus diversions from Michigan, Colorado and Laramie rivers, plus diversions for irrigation and municipal use above station.
- (2) Observed flow plus by-pass to power plants.
- (3) Observed flow minus diversions through Jones Tunnel.

SOUTH PLATTE RIVER WATERSHED IN COLORADO



SNOW		CURRE	NT INFORMA	TION	PAST R	ECORD
SNOW COURSE	ио.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER C (INCHE LAST YEAR	ES)
SOUTH PLATTE RIVER AND TRIBUTARIES Baltimore Berthoud Falls Big South Boulder Falls Cameron Pass Chambers Lake Copeland Lake Deadman Hill Deer Ridge Empire Geneva Park Grizzly Peak (B) Hidden Valley Hoosier Pass Hour Glass Lake Jefferson Creek Lake Irene(B) Long's Peak Lost Lake Loveland Pass Loveland Lift No. 1 Pine Creek Red Feather Two Mile University Camp Ward Wild Basin		4/30 4/30 4/29 4/27 4/26 4/29 4/30 4/29 4/30 4/25 4/29 4/26			5.2 13.1 1.2 14.5 27.5 8.0 3.0 17.0 4.2 6.3 0.5 19.2 11.9 12.3 7.3 7.7 18.1 13.4 10.9 18.3 27.1 0 8.6 16.6	13.2* 0.9 12.5* 25.6 4.9 2.3* 17.7 3.6* 6.5* 20.1 13.4 11.9 7.8 8.0 24.3 13.9* 8.4* 14.7 3.9 17.2* 25.1 6.1* 15.2

NOTE: * - 1943 - 57 (ADJUSTED AVERAGES)
NS - NO SURVEY
(A) - AIR OBSERVED
(B) - ON ADJACENT DRAINAGE

This Report Prepared by
Jack N. Washichek and Don W. McAndrew
Soil Conservation Service
Colorado State University
Ft Collins, Colorado

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SOIL CONSERVATION SERVICE

Snow Survey Colorado State University Ft. Collins, Colorado

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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE

ARKANSAS RIVER WATERSHED IN COLORADO

as of May 1, 1962

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO

SNOW COVER

The high elevation snow pack remains above normal. Much of the lower elevation snows have melted due to the above seasonal temperatures and the below normal precipitation experienced last month.

SOIL MOISTURE

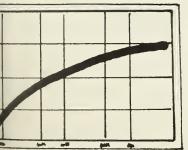
Mountain soil moisture over the entire basin remains good and is better than last year. This condition will add to the prospects of a good water year. Soil moisture in the valley is also reported as fair this month.

RESERVOIR STORAGE



Reservoirs in the Arkansas River system are releasing water for irrigation. Carry-over storage in these reservoirs is below normal.

EXPECTED STREAMFLOW



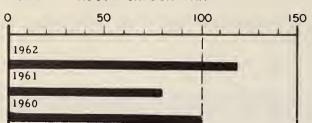
The main stem of the Arkansas is expected to flow much above normal this season. Tributaries to the main stem are not expected to produce above 90-100% of average.

'THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY'

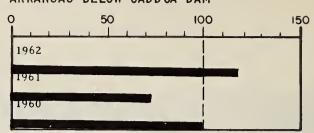
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K. W. Chalmers, State Conservationist, Colorado Dearl B. Beach, Area Conservationist, Colorado Springs, Colorado Will D. McCorkle, Area Conservationist, Lamar, Colorado

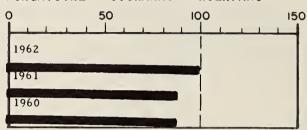
ARKANSAS ABOVE CADDOA DAM



ARKANSAS BELOW CADDOA DAM



PURGATOIRE - CUCHARAS - HUERFANO



RESERVOIR	STORAGE	(1,000	AC.	FT.)	
-----------	---------	--------	-----	------	--

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEAR AVERAGE 1943 - 57
Adobe Creek Clear Creek Cucharas Great Plains Horse Creek John Martin Meredith Model Sugar Loaf Twin Lakes	61.6 11.4 40.0 150.0 26.9 366.6 41.9 15.0 17.4 57.9	0 10.4 8.0 39.4 12.0 0 23.2 5.1 9.0 17.1	0 5.5 2.1 22.7 0 11.6 5.2 6.5 6.5	11.2 4.3 4.4 51.1 7.4 44.8 13.3 2.3 7.6 19.3

PRECIPITATION

STATION	AUGUST	THROUGH	winter		
	NOVE	MBER	Ave. Dep.		
	AVE.	DEP.	Dec - Mar		
Arkansas	8.36	+3 • 49	3.22	03	

PRELIMINARY U.S. WEATHER BUREAU DATA
AVERAGE OF SELECTED STATIONS

MEASURED FIRST OF MONTH

SOIL MOISTURE

STATION	CAPACITY (INCHES)	THIS YEAR	I LAST 1	AVERAGE ALL PAST DATA)
Garfield	7.0	4.3	3.7	5.1
King	8.0	5.4	4.6	5.8
Lake Creek	6.0	4.1	2.5	4.6
LaVeta Pass	8.0	7.4	7.6	7.3
Leadville	7.0	4.6	0.5	2.8

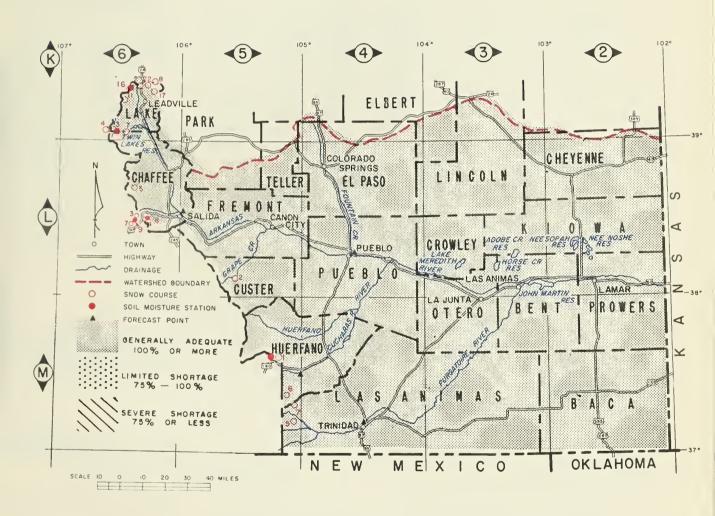
ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 AC. FT.

APRIL THROUGH SEPT STREAM AND STATION	FOR ECAST APRIL - SEPT.	VEAD	AVERAGE 1943-57
Arkansas at Pueblo (1)	496	145	342
Arkansas at Salida (1)	490	145	339
Cucharas near LaVeta	14	100	14
Purgatoire at Trinidad	48	92	52

(1) Observed flow plus change in storage in Clear Creek, Twin Lakes, and Sugar Loaf Reservoirs minus diversions through Busk-Ivanhoe and Twin Lake Tunnels and Ewing, Fremont Pass, Wurtz and Columbine Ditches.

ARKANSAS RIVER WATERSHED IN COLORADO





SNOW		CURRE	NT INFORMA	TION	PAST R	ECORD
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER C (INCHI LAST YEAR	
Bigelow Divide Bourbon Cooper Hill Cucharas Pass East Fork Four Mile Park Fremont Pass Garfield LaVeta Pass (B) Monarch Pass St. Elmo (A) Tennessee Pass Tomichi Twin Lakes Tunnel	5M6 5L3 5M5 6K23 5M7 6K17 6K8 6L8 5M1 6L4 6L5 6K2 6L7 6K3 5L2	NS 4/27 4/26 4/28 NS 4/26 4/27 4/30 4/27 4/30 4/27 4/30 4/27 4/30 4/27	5 6 52 24 1 62 26 0 51 28 28 30 34 0	1.4 1.7 15.2 8.0 0.3 21.2 10.7 0 21.0 11.2 9.3 11.3 10.8	 4.8 10.4 6.0 0.4 16.0 14.2 5.0 20.6 13.9 8.7 11.5 9.7 1.1	 8.0* 0.7 18.6 2.8 17.7 11.2* 6.8 9.2 4.0*

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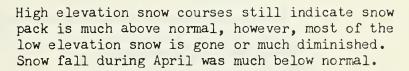
WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE

UPPER RIO GRANDE WATERSHED IN COLORADO

as of May 1, 1962

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO

SNOW COVER

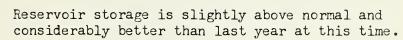


Snowpack in the Sangre de Cristo mountains is normal or slightly less.

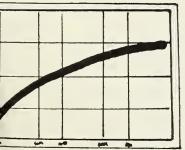
SOIL MOISTURE

Mountain soils are saturated partially due to melting snow. Soil has had above normal moisture all winter and will add to the summer streamflow. Valley soils are reported as good.

RESERVOIR STORAGE



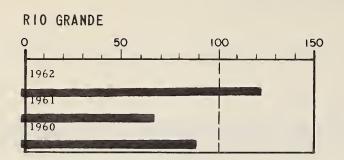
EXPECTED STREAMFLOW

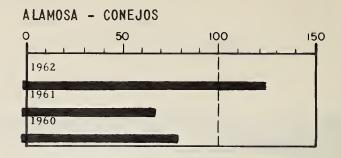


Streamflow will be normal or above for streams in this basin. Current streamflow is above normal on all streams. High temperatures in this area are responsible. Most of the low snow is melting earlier than normal. Water supplies should be adequate if summer precipitation is normal or better.

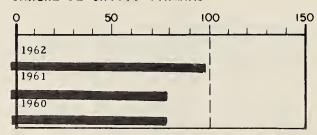
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SANGRE DE CRISTO STREAMS



RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEAR AVERAGE 1943 - 57
Continental Platoro Rio Grande Sanchez Santa Maria Terrace	26.7 60.0 45.8 103.2 45.0 17.7	7.2 6.5 24.3 16.6 8.3 13.0	4.6 4.0 9.2 8.4 4.3 4.6	8.9 5.3 11.6 11.1 8.4 3.5

MEASURED FIRST OF MONTH

PRECIPITATION

STATION	AUGUST T NOVEM AVE.		winter AVE. DEP. Dec-Mar		
Rio Grande (Colo.)	8.26	+3.74	2.00	24	

PRELIMINARY U.S. WEATHER BUREAU DATA AVERAGE OF SELECTED STATIONS

SOIL MOISTURE

STREAMFLOW FORECAST(1,000 AC. FT.)

0012 1101010112							
STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)			
Alberta Park Bristol View LaVeta Pass Mogote	9.0 7.0 8.0 7.0	7.0 6.7 7.4 6.8	4.4 6.7 7.6 6.5	5.3 4.0 7.3 5.5			

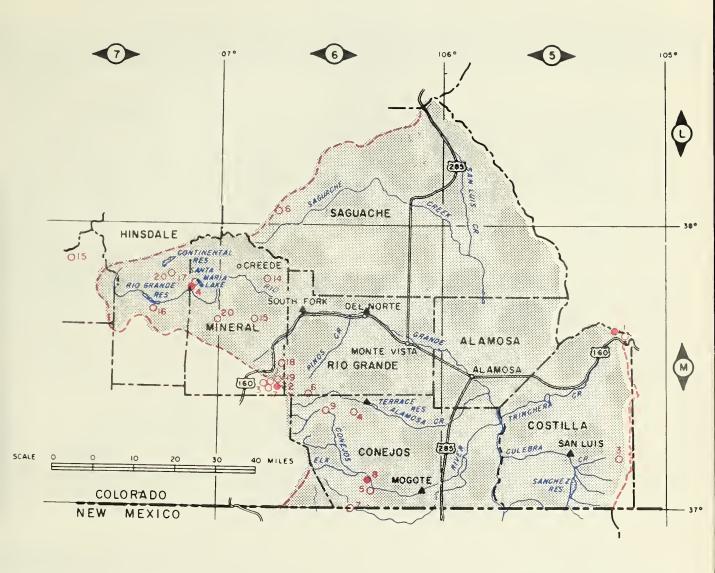
AT.T.	PROFILES	4	FFFT	DEED
VPP	I KOLILES		LELI	DELL

APRIL THROUGH SEPTEMBER						
STREAM AND STATION	FORECAST APRIL - SEPT.		AVERAGE 1943-57			
Alamosa above Terrace	95	134	71			
Conejos near Mogote	260	132	197			
Culebra at San Luis(2)	21	88	24			
Rio Gr. nr. Del Norte(1)	700	142	491			
Rio Gr. at Thirty Mile						
Bridge (1)	178	159	112			
Couth Fork at South Fork	160	121.	' 121 '			

(1) South Fork at South Fork and Continental Reservoir

(2) Observed flow plus changes in storage in Sanchez Reservoir.

UPPER RIO GRANDE WATERSHED IN COLORADO







5,L-17,260

SNOW		CURRE	NT INFORMA	TION	PAST RI	ECORD
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER C (INCHE	
RIO GRANDE IN COLORADO			,		1	
Cochetopa Pass	6 L 6	4/24	10	2.6	6.6	2.8*
Hiway	6M19	4/30	76	31.9	25.1	
Lake Humphreys	6M15		Ö	0	0.7	0.2*
Pass Creek	6M18		8	2.3	4.4	
Pool Table	5M14	Est.	0	ō	4.1	2.2*
Porcupine	7M20		40	16.0	5.8	5.9*
Red Mountain Pass (B)	7M15	4/27	81	35.3	32.5	25.6*
Santa Maria	7M17	4/30	0	0	0.3	0.7
Upper Rio Grande	7M16	4/25	5	1.6	2.2	2.3
Wolf Creek Pass	6M1	4/30	63	28.0	21.2	25.4
Wolf Creek Summit (B)	7M17	4/30	88	37.1	27.8	30.5*
ALAMOSA RIVER						
Silver Lakes	6M4	4/30	0	0	0.0	0.6
Summitville	6M6	4/30	73	24.3	20.3	21.9
CONEJOS RIVER						
Cumbres Pass	6M7	14/27	43	21.2	17.3	13.3
Platoro	6M9	4/30	53	23.3	5.9	11.0*
River Springs	6M5	4/30	0	0	1.1	1.0
SANCRE DE CRISTO RANCE (Colo.)		,,,,				
Blue Lakes (B)	5 M 6		NS			
Cucharas Pass (B)	5M7		NS			
Culebra	5M3	4/29	7	1.6	8.1	6.3
LaVeta Pass	5M1	4/30	0	0	5.0	2.8

NOTE: * - 1943 - 57 (ADJUSTED AVERAGES)
NS - NO SURVEY
(A) - AIR OBSERVED
(B) - ON ADJACENT DRAINAGE

This Report Prepared by
Jack N. Washichek and Don W. McAndrew
Soil Conservation Service
Colorado State University
Ft Collins, Colorado

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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE

RIO GRANDE WATERSHED IN NEW MEXICO

as of May 1, 1962

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO

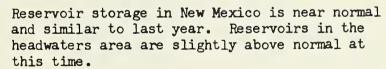
SNOW COVER

Only a few snow courses are measured in New Mexico on May 1. Usually most of the snow pack has melted by this time. Snow courses on the Rio Grande in Colorado indicate the snow pack is much above normal. Snow fall in the headwaters area during April was much below normal.

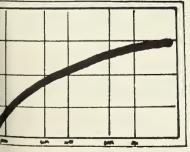
SOIL MOISTURE

Mountain soils are saturated. Soils have had above normal moisture all winter and this condition will add to the summer streamflow.

RESERVOIR STORAGE



EXPECTED STREAMFLOW



Streamflow will be normal or above normal for all tributaries in the basin. The main stem of the Rio Grande is forecast at 170% of normal at Otowi. Water supplies should be adequate if this summer's precipitation is normal or better.

'THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY'

ISSUED BY: SOIL CONSERVATION SERVICE

150

RESERVOIR STORAGE (1,000 AC. FT.

RESERVOTA STORAGE (1,000 AC. 11.)							
RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEAR AVERAGE 1943 - 57			
Alamorgordo Caballo Elephant Butte El Vado McMillan-Avalo Red Bluff (Tex	194.5 n 44.5	80.0 96.6 368.7 72.6 12.0	122.1 78.8 330.3 60.0 21.8 2.8 279.4	36.0 130.3 551.7 85.8 8.3 68.5 265.2			

MEASURED FIRST OF MONTH

PRECIPITATION

STATION	NOVE	THROUGH MBER DEP.	winter Aye. Dep. Dec-Mar		
Lower Rio Grande Middle Rio Grande Upper Rio Grande	9.05	+1.84 +2.72 +3.74	4.52	+.21 +.06 24	

PRELIMINARY U.S. WEATHER BUREAU DATA AVERAGE OF SELECTED STATIONS

SOIL MOISTURE

STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Alberta Park (Colo) Aqua Piedra Bateman Big Tesuque Bristol View(Colo) Chamita (New Mex.) Fenton Hill Mogote (Colo) Red Summit	9.0 7.2 6.7 3.7 7.0 8.0 6.5 7.0	7.0 4.3 3.4 2.3 6.7 5.4 6.8 0.3	4.4 5.0 1.7 0.9 6.7 6.2 6.5 6.5	5.3 2.7 2.9 1.7 4.0 5.9 5.5 0.9
Rio En Medio	3.5	1.1	0.2	0.2
Taos Canyon ALL PR	311.2s 4 1	60TOEE	P3.0	2.1

UPPER F	RIO GRANDE		
0	50	100	150
1962			
1961			
1960			

100

RIO CHAMA

1962

1960

1960

50

MIDDLE RI	O GRANDE		
0	50	100	150
1962			
1961			
1960			

- 1	LOWER	RIO GRANDE		
C)	50	100	150
				1
	1962			
	1961			
			i	

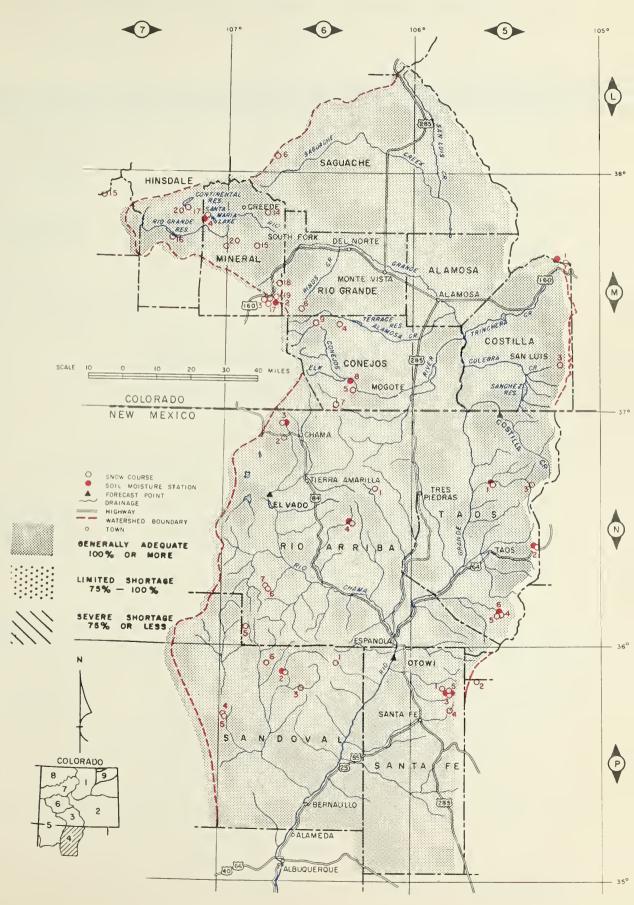
STREAMFLOW FORECAST(1,000 AC. FT. THIS FORECAST STREAM AND STATION APRIL AVERAGE SEPT. 1943-57 AVERAGE Costilla at Costilla 27 100 27 Pecos at Pecos 75 156 48 275 131 Rio Chama nr. La Puenta 210 Rio Grande at Otowi (10)* 075 170 633 Rio Grande at San Marcial (10)*820 190 434

Rio Grande at San Marcial is Forecast at 117% of the Elephant Butte Trrigation District's Normal. (10) Observed flow plus changes in storage in

(10) Observed flow plus changes in storage in Santa Maria, Rio Grande, Continental, Terrace, Sanchez, Platoro and El Vado Reservoirs.

^{*} Rio Grande at Otowi and Rio Grande at San Marcial Forecast and Average Mar-July inclusive.

RIO GRANDE WATERSHED IN NEW MEXICO



SNOW	1	CURRE	NT INFORMA	TION	PAST R	RECORD
SNOW COURSE	NO.	DATE OF	SNOW DEPTH	WATER	WATER CO	S)
		SURVEY	(INCHES)	(INCHES)	LAST YEAR	AVERAGE 1943 - 57
RIO GRANDE (COLORADO & NEW MEXICO) Cochetopa Pass (Colorado) Culebra Cumbres Pass Hiway Lake Humphreys LaVeta Pass Pass Creek Platoro Pool Table Porcupine River Springs Santa Maria Silver Lakes Summitville Upper Rio Grande Wolf Creek Pass Wolf Creek Summit (New Mexico) Chamita Rio En Medio	616 5M3 6M7 6M19 6M15 5M1 6M18 6M9 6M14 7M20 6M5 7M17 6M4 6M6 7M16 6M1 6M17	4/30 4/30 4/30 4/30 4/30 Est. 4/30 4/30 4/30	10 7 45 76 0 8 53 0 40 0 0 73 53 88 1 2	2.6 1.6 21.2 31.9 0 0 2.5 23.3 0 16.0 0 0 24.3 1.6 28.0 37.1	6.6 8.1 17.3 25.1 0.7 5.0 4.4 5.9 4.1 5.8 1.1 0.3 0.0 20.3 2.2 21.2 27.8	2.8* 6.3 13.3 0.2* 2.8* 1.0* 2.2* 5.9* 1.0 0.7 0.6 21.9 2.3 25.4 30.5*

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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE

SAN MIGUEL - DOLORES - ANIMAS - SAN JUAN WATERSHEDS IN COLORADO & NEW MEXICO

May 1, 1962

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO

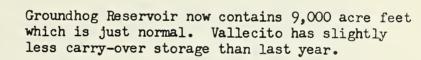
SNOW COVER

As is the case in the rest of the State, snow fall was below normal during the month of April. Most snow courses are still above normal, but low elevation snows are melting rapidly. Snow pack at high elevations is still much above normal.

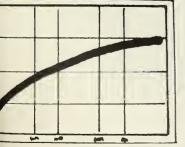
SOIL MOISTURE

Normally soil moisture is fairly good in this area. This is true again this year. Moisture is just slightly better than average. Valley soils are reported as good.

RESERVOIR STORAGE



EXPECTED STREAMFLOW



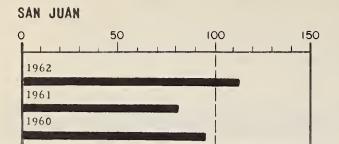
All streams are being forecast above normal, but some were slightly lowered from last month. Most streams are currently flowing above normal due to the high temperatures experienced during April. Water supplies should be adequate this summer. Forecasts are made with the assumption that precipitation will be normal the rest of the year.

'THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY'

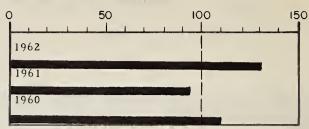
ISSUED BY: SOIL CONSERVATION SERVICE

K. W. Chalmers, State Conservationist,
Colorado
Benny Martin, Area Conservationist,
Monte Vista, Colorado
E. A., Nicholson, Area Conservationist.
Grand Junction, Colorado

C. A. Tldwell, State Conservationist, New Mexico J. B. Christy, Area Conservationist Albuquerque, N. M.

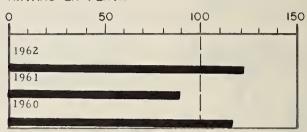


PIEDRA-PINOS-FLORIDA





ANIMAS-LA PLATA



RESERVOIR STORAGE (1,000 AC. FT.)

PRECIPITATION

RESERVOTA S	TORAGE	(1)	700 AC	, , , , ,	/		11011	014		
RESERVOIK	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEAR AVERAGE 1943 - 57		STATION	AUGUST THROUGH NOVEMBER AVE, DEP.		winter Ave. Dep. Dec-Mar	
Groundhog Vallecito	21.7	9.0 57.0	6.0	9.2 64.3		Dolores San Juan		+2.19 +4.04	5.15 7.02	-1.54 -1.01
	1	1	•	, ,	•	DDFI IMINARY II	WEATH	ED BIIDE AII	DATA	

MEASURED FIRST OF MONTH

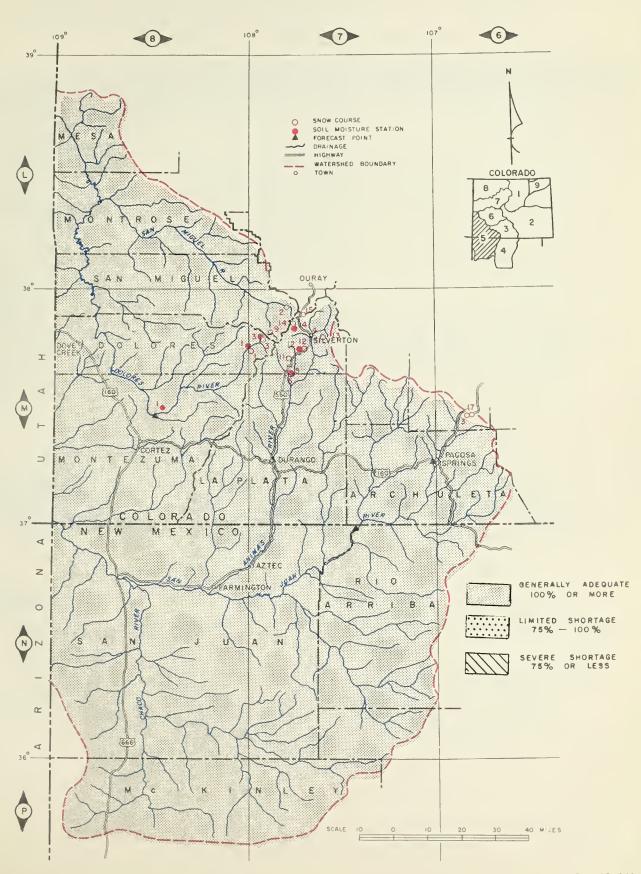
PRELIMINARY U.S. WEATHER BUREAU DATA AVERAGE OF SELECTED STATIONS

SOIL MOISTURE

STREAMFLOW FORECAST (1,000 AC. FT.)

			and the same of th		APRIL THROUGH SEPT			
STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)	STREAM AND STATION	FORECAST APRIL - SEPT.	THIS YEAR % AVERAGE	AVERAGE 1943-57
Cascade Dolores Lizard Head Mineral Creek Molas Lake Rico	7.0 7.0 7.0 7.0 7.0	5.3 5.7 5.8 4.9 4.8 5.0	NS 5.6 5.9 NS NS 5.0	5.8 4.2 4.8 5.7 5.5 4.4	Animas at Durango Dolores at Dolores Florida near Durango LaPlata at Hesperus Los Pinos near Bayfield* Piedra Creek near Piedra San Juan at Rosa, N. Mex.	625 350 74 39 300 260 820	131 125 119 139 136 139 140	475 279 62 28 220 186 587

SAN MIGUEL-DOLORES-ANIMAS-SAN JUAN RIVERS WATERSHEDS IN COLORADO & NEW MEXICO



SNOW	- 1	CURRENT INFORMATION PAST RECORD				ECORD
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CO	(S)
SAN JUAN RIVER Chama Divide (B) (New Mexico) Chamita (B) (New Mexico) Upper San Juan (Colorado) Wolf Creek Pass (B) Wolf Creek Summit ANIMAS RIVER Cascade Howardville Ironton Park (B) Mineral Creek Molas Lake Red Mountain Pass Silverton Sub-Station Spud Mountain DOLORES RIVER Lizard Head Rico Telluride Trout Lake	6N2 6N3 6M3 6M1 6M17 7M5 7M13 7M6 7M14 7M12 6M19 7M4 7M11 7M3 7M1 7M2 7M9	4/26 4/26 4/30 4/30 4/30 4/27 4/27 4/27 4/27 4/27 4/27 4/27 4/27	0 1 66 63 88 8 25 21 30 26 81 0 60	0 0.4 35.5 28.0 37.1 3.0 9.8 6.8 11.3 9.7 35.3 0 26.2 17.9 0 0 10.0	NS 0.5 26.9 21.2 27.8 4.7 8.8 14.3 13.3 7.6 32.5 0.9 21.5 15.6 0.0 3.0 11.6	30.3 25.4 30.5* 2.9 5.0* 7.0 9.3* 6.7* 25.6* 0.5 21.2* 12.9 1.3 1.2 8.6*

NOTE: * - 1943 - 57 (ADJUSTED AVERAGES)

NS - NO SURVEY
(A) - AIR OBSERVED
(B) - ON ADJACENT DRAINAGE

This Report Prepared by
Jack N. Washichek and Don W. McAndrew
Soil Conservation Service
Colorado State University
Ft. Collins, Colorado

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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE

GUNNISON RIVER WATERSHED IN COLORADO

as of May 1, 1962

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO

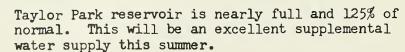
SNOW COVER

The low elevation snow courses are below normal due to melting and lack of material snow fall during April. Generally all snow is gone below 8,000 feet except on the north slopes. High elevation snow is still above normal.

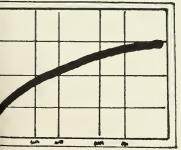
SOIL MOISTURE

Moisture in the high elevation soil has been above normal all winter. It has been much better than last year. This should increase the streamflow since melting snow does not have to fill the soil mantle prior to runoff.

RESERVOIR STORAGE



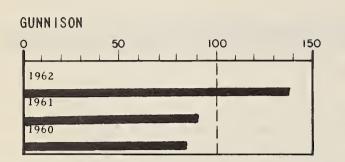
EXPECTED STREAMFLOW

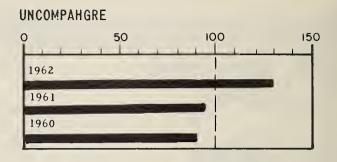


Streamflow should be excellent this summer. Current forecast on the main stem is for 140% of the 1943-57 average. These forecasts are based on average rainfall for the remainder of the year. Surface Creek and the Uncompange should flow about 130% of normal.

'THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY'

ISSUED BY: SOIL CONSERVATION SERVICE





RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR USABLE THIS LAST YEAR AVERAGE 1943 - 57 Taylor Park 106.2 83.6 38.5 67.0

P	REC	IP	H	AI	ION	Į

STATION	AUGUST NOVEL		winter		
Gunnison	8.28	+3.83	5.71	+.57	

MEASURED FIRST OF MONTH

SOIL MOISTURE

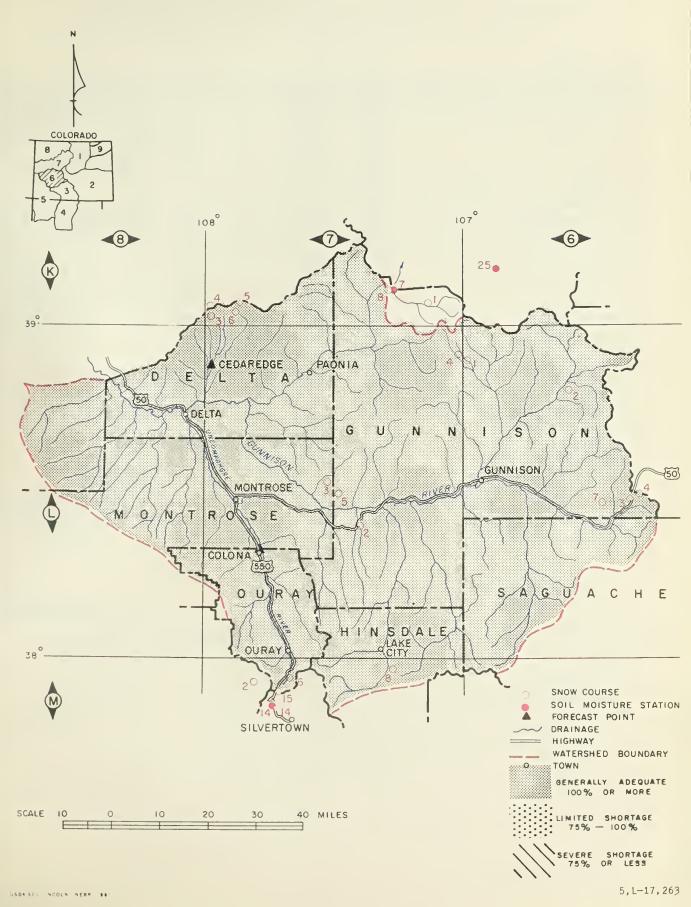
PRELIMINARY U.S. WEATHER BUREAU DATA AVERAGE OF SELECTED STATIONS

STREAMFLOW FORECAST APRIL THROUGH SEPTEMBER	(1,000 AC.	FT.)

APRIL THROUGH SEPTEMBER									
STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)		STREAM AND STATION	FOR ECAST APRIL SEPT.		AVERAGE 1943-57
King Maroon Mineral Cree Placita	8.0 8.0 7.0 8.0	5.4 7.8 4.9 6.4	4.6 7.4 NS 6.4	5.7		Gunnison nr. Grand Jct. Surface Cr. at Cedaredge Uncompangre at Colona	1950 24 185	141 133 128	1386 18 145

ALL PROFILES 4 FEET DEEP

GUNNISON RIVER WATERSHED IN COLORADO



SNOW		CURRE	NT INFORMA	TION	PAST R	ECORD
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CO (INC'HE	S)
GUNNISON RIVER			(LASI FEAR	AVERAGE 1943 - 57
Alexander Lake	7K3	4/27	59	26.1	21.9	22.7
Black Mesa	7L5	4/~1		~~~	13.5	
Blue Mesa	712	4/27	4	1.0	3.0	
Cochetopa Pass (B)	6 L 6	4/24	10	2.6	6.6	2.8*
Crested Butte	6L1	4/26	20	9.3	10.0	7.9
Keystone	7L3	4/25	52	22.8	14.8	
Lake City	7M8	4/28	íĩ	2.9	3.8	3.1*
Long Draw	714	.,			0.0	
Mesa Lakes (B)	7K4	4/28	35	15.0	18.9	14.4
Monarch Pass (B)	6I4	4/27	51	21.0	20.6	17.7
McClure Pass	7K8	4/27	28	11.6	9•3	12.2*
Mineral Creek (B)	7M14	4/27	30	11.3	13.3	9.3*
North Lost Trail (B)	7K1	4/27	20	8.6	11.7	8.8
Park Cone	6L2	4/27	31	11.4	7.9	7.4
Park Reservoir	7K6	4/28	63	28.7	25.8	25.5
Porphyry Creek	6L3	4/27	50	19.9	17.9	16.7
Trickle Divide (B)	7K5	4/26	74	32.8	27.7	29.4
Tomichi	6L7	4/27	30	11.3	11.5	
UNCOMPAHGRE RIVER		,				
Ironton Park	7M6	4/27	21	6.8	14.3	7.0
Lizard Head	7M3	4/27	39	17.9	15.6	12.9
Red Mountain Pass (B)	7M15	4/27	81	35.3	32.5	25.6*
Telluride	7M2	4/27	0	0	3.0	1.2
Trout Lake	7M9	4/27	27	10.0	11.6	8.6*

NOTE: * - 1943 - 57 (ADJUSTED AVERAGES)
NS - NO SURVEY
(A) - AIR OBSERVED
(B) - ON ADJACENT DRAINAGE

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This Report Prepared by
Jack N. Washichek and Don W. McAndrew
Soil Conservation Service
Colorado State University
Ft Collins, Colorado

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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE

COLORADO RIVER WATERSHED IN COLORADO

May 1, 1962

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO

SNOW COVER

For the second month in a row, snow fall has been below normal. Snow courses throughout the basin indicate very little snow fell during the month. Low elevation snow has just about disappeared. Medium elevation snow pack is near normal while the high snow fields are still above average.

SOIL MOISTURE

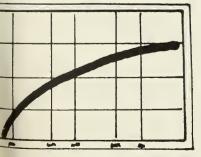
Soil moisture has been high all winter and is now being added to by melting snows. This condition should increase the runoff from current snow pack. Valley soil moisture for the entire basin is reported as good.

RESERVOIR STORAGE

Carry-over storage on the main stem of the Colorado is good. Granby storage is much above last year and nearly twice normal.

Green Mountain is being drained prior to runoff season. This reservoir should fill this summer.

EXPECTED STREAMFLOW



Forecasts were reduced on the main stem and all tributary streams due to lack of snow. The most drastic reduction was on the main stem above Granby. The inflow to Granby reservoir is now expected to be only about 300,000 or 128% of normal. All streams are forecasted above normal and water supply should be adequate.

'THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY'

ISSUED BY: SOIL CONSERVATION SERVICE

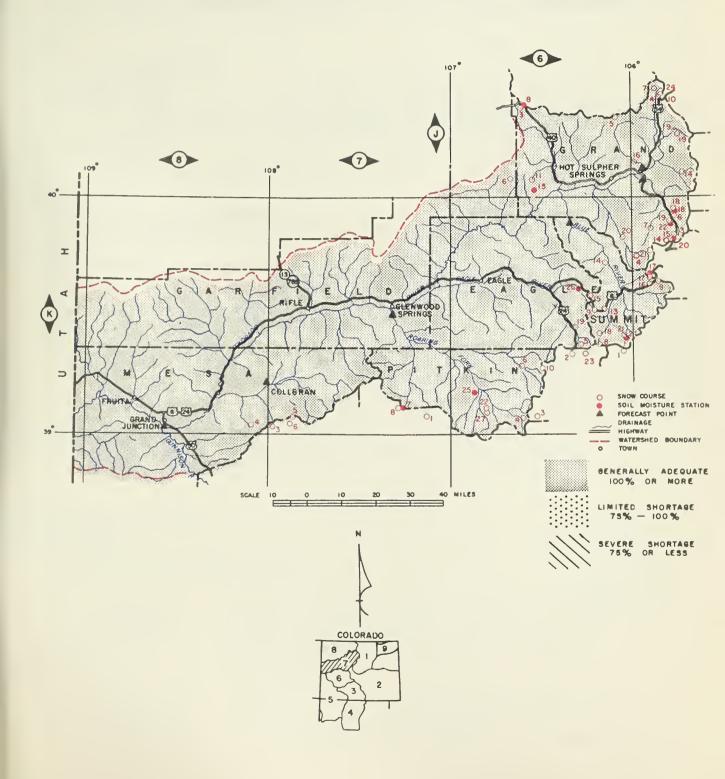
K. W. Chalmers, State Conservationist, Colorado E. A. Nicholson, Area Conservationist
Grand Junction, Colorado
M. H. Weaver, Area Conservationist,
Glenwood Springs, Colorado

SNOW		PAST R	PAST RECORD			
SNOW COURSE	NO.	DATE	SNOW DEPTH	WATER CONTENT	WATER C	
Show cooks	NO.	SURVEY	(INCHES)	(INCHES)	LAST YEAR	AVERAGE 1943 - 57
GOLODADO DEUED (IDDED)						
COLORADO RIVER (UPPER)	EVL	1/26	25	4.0	100	7.0
Arrow Berthoud Pass	5K6	4/26	25	8.9	10.8	7.8
Berthoud Fass Berthoud Summit	5K3	4/27	41	15.8	15.5	
	5K14 6K21	4/30	70		19.8	20.2*
Blue River	6K23	4/26	19	5.3	5.7	
Cooper Hill Fiddlers Gulch	6K5	4/28	52	15.2	10.4	i
Fremont Pass	6K8	4/30	49 62	17.0	14.6	15.9
Frisco	6K13			21.2	16.0	18.6
Glen Mar Ranch	61620	4/26	16 8	5.7	7.0	5.6*
Gree Pass	6J11		1	2.9		4.8*
Granby	5J16	4/27	21	8.2	8.5	9.5*
Grand Lake	-		9	3.2	3.6	2.9*
	5J19 5K9	4/30 4/25	15 56	4.7	5.4 19.2	3.8* 20.1
Grizzly Peak Hoosier Pass (B)	6K1	4/25	41	21.3	12.3	11.9
Jones Pass						
Lake Irene	5 K2 1 5 J 10	4/25	40 66	15.7 25.6	17.4	24.3
Lapland	5 K 7	5/1	27	9.0	7.9	9.1
Lulu	5 J 7	4/28	68	25.4	16.8	19.0
Lynx Pass	6 K 6	4/27	24	10.0	10.5	7.5
McKenzie Gulch	6K28	4/27	0	0		
Middle Fork Camp Ground	5K4	4/26	13	4.9	9.7	6.0
Milner Pass	5J24	4/30	38	14.2	11.5	10.5*
Monarch Lake	5J14	4/29	20	5.9	6.1	5.4*
North Inlet Grand Lake	5J9	4/30	23	6.3	5.4	7.0
Pando	6K19		19	6.1	8.9	8.1*
Phantom Valley	5J4	4/30	21	7.5	6.3	6.6
Ranch Creek	5 K 18	4/26	24	7.0	9.8	
Shrine Pass	6K9	4/26	62	23.1	19.0	18.7
Snake River	5 K 16		2	0.1	3.8	5.6
Summit Ranch	6K14	4/27	13	3.8	6.7	6.6
Tennessee Pass	6K2	4/28	28	9.3	8.7	6.8
Vail Pass	6K15	4/26	45	16.5	13.5	16.8
Vasquez Creek	5K19		39	14.2	10.7	
Willow Creek Pass	6J5	4/26	34	14.3	13.2	11.5
ROARING FORK RIVER						
Aspen	7J22	4/23	66	20.9	15.6	
Independence Pass Tunnel	6K4	4/28	55	19.3	20.7	17.8
Ivanhoe	6K1Q	4/16	68	24.0	14.4	17.89
Lift	7K27	4/23	83	26.3	19.1	
McClure Pass	7K8	4/27	28	11.6	9.3	12.2
Nast	6K6	4/25	2	0.1	2.1	1.6
North Lost Trail	7K1	4/27	20	8.6	11.7	8.8
PLATEAU CREEK						
Alexander (B)	7K3	4/26	59	26.1	21.9	22.7
Mesa Lakes	7K4	4/28	35	15.0	18.9	14.4
Park Reservoir (B)	7K6	4/28	63	28.7	25.8	25.5
Trickel Divide	7K5	4/28	74	32.8	27.7	29.4

NOTE: * - 1943 - 57 (ADJUSTED AVERAGES)

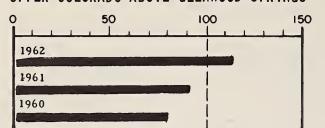
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COLORADO RIVER WATERSHED IN COLORADO

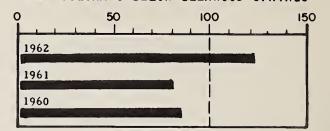


USDA SCS LINCOLN NEBR 1881

UPPER COLORADO ABOVE GLENWOOD SPRINGS



LOWER COLORADO BELOW GLENWOOD SPRINGS



RESERVOIR STORAGE (1.000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	YEAR	I5 YEAR AVERAGE I943 - 57
Granby * Green Mt.	465.	330.0 9 28.7)214.0 54.8	

PRECIPITATION

STATION	AUGUST 1 NOVEN AVE.	winter		
Upper Colorado	9.86	5.88	38	
Lower Colorado	8.26	4.28	+.02	

PRELIMINARY U.S. WEATHER BUREAU DATA AVERAGE OF SELECTED STATIONS

MEASURED FIRST OF MONTH

50	1	L	MU	12	IU	K

	APACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Berthoud Pass Blue River Gore Maroon Muddy Pass Placita Ranch Creek Vail Pass Vasquez	8.0 7.0 7.0 8.0 8.0 7.0 8.0	7.6 7.0 6.7 7.8 8.0 6.4 6.2 7.6	5.5 0.8 0.7 7.4 6.6 6.4 3.4 7.4 6.4	4.1 2.4 5.5 7.4 5.0 6.8 4.3 6.7 5.9

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 AC. FT.

STREAM AND STATION	FORECAS APRIL - SEPT.	1 Y	HIS EAR % RAGE	AVERAGE 1943-57
Blue River abv. Green Mt.	. Dam	300	103	290
Colo. R. nr. Granby (4)			128	235
Colo. R. at Glenwood Sprs	3(5) 1	900	123	1546
Plateau Cr. near Collbrar			112	
Roaring Fork at Gl. Spgs.			137	803
Williams Fork nr. Parshal	11	100	128	78
Willow near Granby		58	132	44
			ı	1

- (4) Observed flow plus diversions by Adams tunnel and Grand River ditch plus change in storage in Granby Reservoir.
- (5) Observed flow plus the changes as indicated in (4) plus Moffat Ditch.
- (6) Observed flow plus diversion through Twin Lakes tunnel.

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SOIL CONSERVATION SERVICE

Snow Survey Colorado State University Ft. Collins, Colorado

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WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE

YAMPA, WHITE, & NORTH PLATTE RIVERS WATERSHEDS IN COLORADO

as of

May 1, 1962

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO

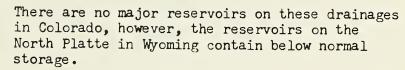
SNOW COVER

As in other areas of the State, low elevation snow cover is almost gone. The remaining is now below normal. Medium to high elevation snow is still above average. High temperatures and dry winds were experienced over most of the basin during the last half of April.

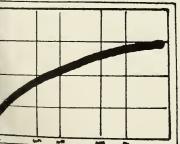
SOIL MOISTURE

Soil moisture has been above average all year and is now completely saturated. This is due primarily to melting snow seeping into the ground. The good soil moisture condition should increase runoff.

RESERVOIR STORAGE



EXPECTED STREAMFLOW

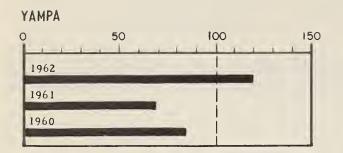


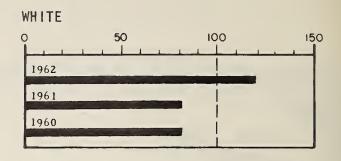
All streams in these basins should supply adequate water for irrigation needs. Forecasts are all normal or above. Flows are currently above normal and with continued warm weather will probably remain high.

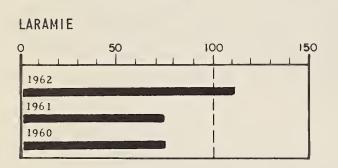
Forecasts are based on average precipitation for the remainder of the season. Any deviation from

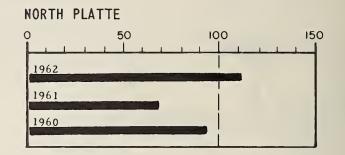
'THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY'

ISSUED BY: SOIL CONSERVATION SERVICE









SOIL MOISTURE

STREAMFLOW FORECAST (1,000 AC. FT.)

STATION	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Hahn's Peak Laramie Road Muddy Pass Two Mile Willow Pass	8.0 7.0 8.0 8.0 7.0	8.0 6.4 8.0 6.0 7.0	7.7 0.8 6.6 1.2 1.0	4.0 5.0 3.2 3.8

STREAM AND STATION	FORECAST APRIL - SEPT.	THIS YEAR % AVERAGE	AVERAGE 1943-57
Elk at Clark Laramie at Jelm Little Snake at Lilly North Platte at Northgate White at Meeker Yampa at Steamboat Sprgs.	375	100 134 129 170 119 120	215 113 350 255 335 283

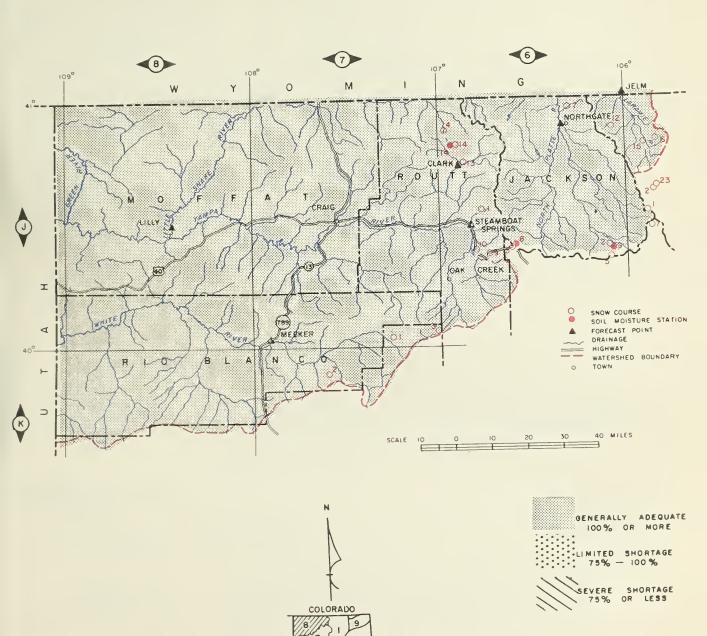
ALL PROFILES 4 FEET DEEP

PRECIPITATION

STATION	AUGUST THROUGH NOVEMBER AVE. DEP.		NOVEMBER WINTER		DEP.
North Platte		+3.07	2.16	03	
White		+3.81	4.80	+.76	
Yampa		+4.14	8.48	+.87	

PRELIMINARY U.S. WEATHER BUREAU DATA AVERAGE OF SELECTED STATIONS

YAMPA, WHITE, & NORTH PLATTE RIVERS WATERSHEDS IN COLORADO



5,L-17,265

6 3

NOW		CURRE	NT INFORMA	TION	PAST	RECORD
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER C	ES)
					LAST YEAR	1943 - 57
IORTH FLATTE RIVER Cameron Fass Columbine Lodge Deadman Hill (B) McIntyre (B) Northgate Park View Roach (B) Willow Creek Pass (B) VAMPA RIVER Bear River Clark Columbine Lodge (B) Dry Lake Elk River Hahn's Peak Lynx Pass (B) Rabbit Ears Yampa View WHITE RIVER Burro Mountain Rio Blanco	5J1 6J3 5J6 5J15 6J7 6J2 6J12 6J5. 7J3 6J13 6J14 6J4 6J14 6J6 6J9 6J10 7K2 7J1				27.5 20.0 17.0 10.1 5.4 8.7 17.4 13.2 8.3 4.0 20.0 15.4 14.3 9.0 10.5 25.4 9.9	25.6 21.3 17.7 9.0* 2.7* 6.5 20.9 11.5 21.3 15.2 12.8 -7.5 26.1* 8.3*

NOTE: * - 1943 - 57 (ADJUSTED AVERAGES)
NS - NO SURVEY
(A) - AIR OBSERVED
(B) - ON ADJACENT DRAINAGE

This Report Prepared by
Jock N. Woshichek and Don W. McAndrew
Soil Conservation Service
Colorado State University
Ft Collins, Colorado

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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE

LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of

May 1, 1962

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO

SNOW COVER

Snow cover at the low elevations has just about disappeared. We have had practically no snow during April and have had considerable melt Warm weather the latter part of April ate up the snow. High elevation courses are still above normal. Cameron Pass has more snow than at any time since 1956.

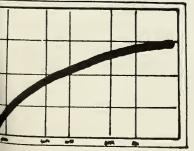
SOIL MOISTURE

Valley soil moisture conditions are not as good as a month ago. No material snow fall or rain has been recorded and dry winds have sapped soils of their water. Mountain soils are soaked.

RESERVOIR STORAGE

Carry-over storage is nearly normal for reservoirs in the Lower South Platte, but reservoirs closer to the mountains are much above normal. Storage in reservoirs of the Big Thompson Project is much above normal.

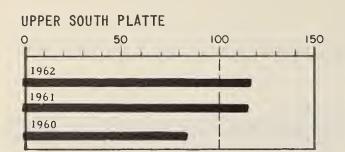
EXPECTED STREAMFLOW

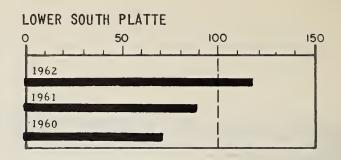


Forecasts are rapidly approaching normal. What looked like a big water season during February and March now looks just a little better than normal. With average precipitation, water supplies should still be adequate. Forecasts are based on average rainfall for the remainder of the year. All forecasts are still above normal. Current streamflow is much above average for this date.

'THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY'

ISSUED BY: SOIL CONSERVATION SERVICE





RESERVOIR STORAGE (1.000 AC. FT.)

SOLL MOISTURE

RESERVOIR USABLE CAPACITY THIS YEAR AVERAGE 1943 - 57 STATION CAPACITY THIS YEAR (ALL DA) Carter * 108.9 107.3 94.4 69.2 Alpine Camp 7.0 4.0 1.4 2.	KESERVOIK
	RESERVOIR
Cheeseman	Cheeseman Eleven Mile Empire Horsetooth * Jackson Lake Julesburg Point of Rocks Prewitt

MEASURED FIRST OF MONTH

STREAMFLOW FORECAST (1,000 AC. FT.)

FORECAST APRIL -

SEPT.

130

190

63

THIS

YEAR

% AVERAGE

123

115

101

125

101

AVERAGE

1943-57

106

55

189

137

84

STATION	AUGUST THROUGH NOVEMBER AVE. DEP.	winter Ave. Dep. Dec-Mar
Upper So. Pl. Lower So. Pl.		

PRECIPITATION

ELIMINARY U.S. WEATHER BUREAU DATA AVERAGE OF SELECTED STATIONS	50. Pl. 7.15 +2.52 1.0868 Saint	La Poudre at Canon(1) 190 Creek at Golden (3) 172 Vrain at Lyons 85
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STREAM

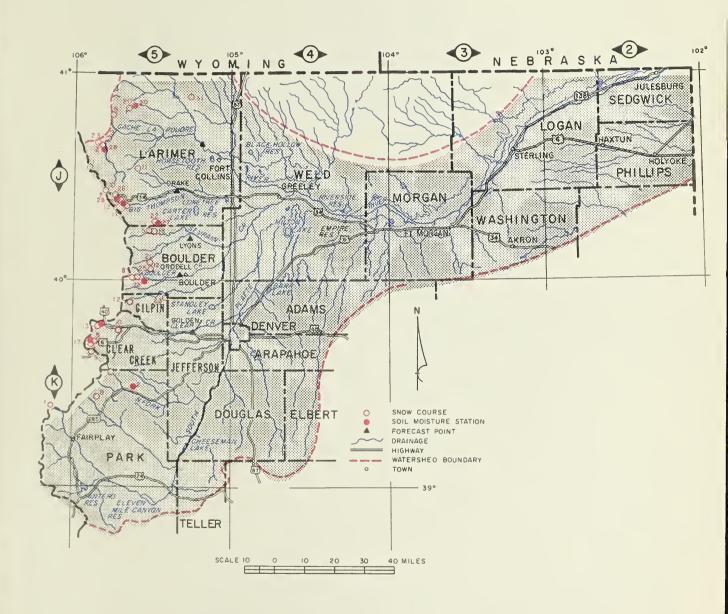
AND STATION

Big Thompson at Drake (2)

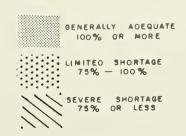
Boulder at Orodell

PRE

LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO







SNOW			TION	FASIKI	ECORD
SNOW COURSE NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CO (INCHE LAST YEAR	
SOUTH PLATTE RIVER AND TRIBUTARIES Baltimore Berthoud Falls Big South Boulder Falls Cameron Pass Chambers Lake Copeland Lake Deadman Hill Deer Ridge Empire Geneva Park Grizzly Peak (B) Hidden Valley Hoosier Pass Hour Glass Lake Jefferson Creek Lake Irene (B) Long's Peak Loveland Lift No. 1 Pine Creek Red Feather Two Mile University Camp Ward Wild Basin 5K13 SK23 SK13 SK23 SK23 SK13 SK23 SK23 SK23 SK23 SK23 SK23 SK24 SJ25 SK24 SJ26 University Camp Ward Wild Basin	4/30 4/30 4/29 4/27 4/29 4/29 4/29 4/30 4/29 4/26 4/26 4/26 4/28 4/29 4/27 4/27 4/29	0 32 83 7 2 52 11 22 0 56 45 41 13 28 66 31 30 38 78 0 8 65	0 11.6 36.5 2.3 0.2	5.2 13.1 1.2 14.5 27.5 8.0 3.0 17.0 4.2 6.3 0.5 19.2 11.9 12.3 7.7 18.1 13.4 10.9 18.3 27.1 0 8.6 16.6 20.0 9.1 12.0	13.2* 0.9 12.5* 25.6 4.9 2.3* 17.7 3.6* 6.5* 20.1 13.4 11.9 7.8 8.0 24.3 13.9* 8.4* 14.7 3.9 17.2* 25.1 6.1* 15.2

NOTE: * - 1943 - 57 (ADJUSTED AVERAGES)
NS - NO SURVEY
(A) - AIR OBSERVED
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This Report Prepared by
Jack N. Washichek and Don W. McAndrew
Soil Conservation Service
Colorado State University
Ft Collins, Colorado

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New Mexico State Engineer
Nebraska State Engineer
Colorado Experiment Station
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